

## REMARKS

Claims 1-5, 8 and 9 are currently active.

The Examiner has indicated that Claims 1-5, 8 and 9 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. 112.

The Examiner has objected to the disclosure. On page 3, line 29 and page 11, line 8, the term "rhombohedral" is now spelled correctly. On page 32, line 21 the term "FMTSEC" is defined to be a particle-in-cell computer simulation code capable of handling secondary emission. On page 45, lines 1 and 2, the term "diocotron instability" is an important criterion for studying the stability of hollow beam equilibrium.

The Examiner has objected to the drawings because reference labels should be provided for those figures depicting schematic aspects of the invention. Applicants provide herewith amended and substitute drawings with reference labels to provide better understanding of the figures. Formal drawings will be provided when the application is allowed.

The Examiner has objected to the drawings because every feature of the invention specified in the claims must be shown. Claims 6 and 7, having the limitations of the screen being circular or rhombohedron, were canceled in the previous amendment.

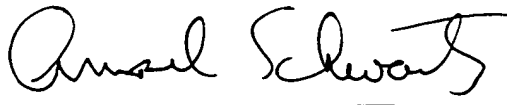
The Examiner has rejected Claims 1-9 under 35 U.S.C. 112, first paragraph. The claims have been amended to obviate this rejection.

The Examiner has rejected Claims 1-9 under 35 U.S.C. 112, second paragraph. Pursuant to the Examiner's suggestions and comments, the claims have been amended to obviate this rejection.

In view of the foregoing amendments and remarks, it is respectfully requested that the outstanding rejections and objections to this application be reconsidered and withdrawn, and Claims 1-5, 8 and 9, now in this application be allowed.

Respectfully submitted,

FREDERICK MICHAEL MAKO, ET AL.

By 

Ansel M. Schwartz, Esquire  
Reg. No. 30,587  
One Sterling Plaza  
201 N. Craig Street  
Suite 304

Pittsburgh, PA 15213  
(412) 621-9222

Attorney for Applicant